

A c t i v i t y M a t r i c e s



**Curriculum and Evaluation
Standards for School Mathematics**

National Council of Teachers
of Mathematics in 1989

Mathematics as Problem Solving
Mathematics as Communication
Mathematics as Reasoning
Mathematical Connection
Computation and Estimation
Algebra
Geometry
Measurement

	<i>Finding the Center of Gravity Using Rulers</i>	<i>Finding the Center of Gravity Using Plumb Lines</i>	<i>Changing the Center of Gravity with Moment Arms</i>	<i>Jet Propulsion</i>	<i>Vectoring</i>	<i>Center of Gravity, Pitch, Yaw</i>	<i>Fuel Efficiency</i>
X	X	X		X			
X	X	X	X				X
X	X	X	X	X			X
			X			X	
		X				X	X
				X			
X	X	X				X	



National Science Education Standards
National Research Council 1996 Grades 4-12

Science as Inquiry

Abilities necessary to do scientific inquiry

Physical Science

Properties and changes of properties in matter

Motions and forces

Transfer of energy

Interactions of energy and matter

Life Science

Structure and function in living systems

Earth and Space Science

Earth in the solar system

Science and Technology

Abilities of technological design

Understanding about science and technology

Science in Personal and Social Perspectives

Populations, resources, and environments

Risks and benefits

Natural and human induced risks

Finding the Center of Gravity Using Rulers
Finding the Center of Gravity Using Plumb Lines
Changing the Center of Gravity with Moment Arms
Jet Propulsion
Vectoring
Center of Gravity, Pitch, Yaw
Fuel Efficiency

X	X	X	X			
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		X				
X	X	X	X	X	X	

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X	X	X		X	X	X
	X					

		X				



Science Process Skills

Observing
 Communication
 Measuring
 Collecting Data
 Inferring
 Predicting
 Making Models
 Making Graphs
 Hypothesizing
 Interpreting Data
 Controlling Variables
 Defining Operationally
 Investigating

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Observing	X	X	X	X	X		
Communication	X	X	X	X	X		
Measuring	X	X	X			X	
Collecting Data	X		X	X	X		
Inferring	X		X		X		
Predicting	X	X	X		X		
Making Models				X	X	X	
Making Graphs							X
Hypothesizing	X		X				
Interpreting Data							
Controlling Variables		X		X	X		X
Defining Operationally							
Investigating	X	X	X		X		

